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ABSTRACT

The course prepares the business education student for the duties and ethics of the medical secretary and involves intensive practice with a high degree of speed and accuracy in taking dictation and transcribing materials related to the medical profession. Included are skills in spelling, pronouncing, and defining the most-used medical terms and the preparation of a variety of medical forms. Skill in advanced dictation and transcription is required as a prerequisite to entry into the course. Course content includes equipment and supplies, skill building, production of medical business forms, letters, and medical reports, duties, and ethics of a medical secretary. Included in the course description are suggested procedures, strategies, learning activities, evaluative instruments, student and teacher resource materials, and an appendix with sample study sheets and test items. (MW)



MEDICAL DICTATION AND TRANSCRIPTION

7707.43 (New: 7754.43)

Business Education

Written by Carol S. Hoffman
And Approved by the Business Education Steering Committee
For Quinmester Courses

for the

DIVISION OF INSTRUCTION

Dade County Public Schools

Miami, FL 33132

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- I. COURSE TITLE--MEDICAL DICTATION AND TRANSCRIPTION
- II. COURSE NUMBER--7707.43 (New: 7754.43)

III. COURSE DESCRIPTION

A. Synopsis

Intensive practice with a high degree of speed and accuracy in taking dictation and transcribing materials related to the medical profession; includes spelling, pronouncing, and defining the most-used medical terms, preparation of a variety of medical forms, and the duties and ethics of the medical secretary.

B. Textbook

One or more of the state adopted textbooks and/or one of the department's choosing.

- C. Occupational Relationships
 Medical secretary
 Medical assistant
- D. Shorthand System
 Any symbolic shorthand system that the student has mastered—
 as well as machine shorthand—may be used in this course.

IV. COURSE ENROLLMENT GUIDELINES

- A. Prior Experiences Needed

 The student should have attained the objectives of Advanced
 Dictation and Transcription prior to enrollment in this course.
 - B. Related Learnings
 Medical Typewriting (7705.32; new, 7766.32) should be taken
 also by students preparing for office occupations in the medical
 field.
 - C. Pretest

This test should be used to determine whether the student has attained the objectives of the preceding course and/or the objectives of this course. It should also help the teacher determine individual placement within the class.

V. COURSE OF STUDY PERFORMANCE OBJECTIVES

Upon successful completion of this course, students will be able to--

- 1. take practiced medical dictation at a minimum rate of 100 WAM for 5 minutes and transcribe their notes on a typewriter with 95 percent accuracy;
- 2. take unfamiliar medical dictation at a minimum rate of 90 WAM for 5 minutes and transcribe their notes on the typewriter with 95 percent accuracy;



7. COURCE OF STUDY PERFORMANCE OBJECTIVES, Continued

- 5. locate 15 medical terms and define them using the dictionary and medical reference materials;
- h. take office-style medical dictation and transcribe their notes on the typewriter with 95 percent accuracy;
- 5. prepare at least three commonly-used medical forms and reports from dictated material;
- 6. write from dictation and transcribe at least 50 commonly used medical terms with 80 percent accuracy;
- 7. demonstrate personal qualities, traits, and attitudes of a medical secretary through good habits and self-evaluations;
- 8. demonstrate a knowledge of medical secretary job specifications by listing orally or in writing 20 duties of a medical secretary; and
- 9. analyze a given case problem and describe at least two entical responsibilities of a medical secretary.

VI. CUTRIE CONTLAY

- A. Equipment and Supplies
 - 1. basic needs
 - a. Typing desks for each student
 - b. Typewriters--electric
 - c. Adjustable posture chairs
 - d. Textbook for each student
 - e. Pens
 - f. Papar
 - g. Shorthand spiral pad
 - h. Medical forms
 - i (arbon paper
 - j. Dictionaries (both standard and medical), thesaurus, and secretarial hardbook
 - k. Correction tape, correction fluid, pencil and ink eraser
 - 1. Stopwatch
 - m. Interval timer with bell
 - n. Tape recorders and speed building tapes
 - 2. Supplementary needs
 - a. Projectors (overhead, film, filmstrip)
 - b. Record player
 - c. Opaque projector
 - d. Screen
 - e. Tape recorder
 - f. Postal ZIP code guides
- B. Skill Building
 - 1. Timed writings (one, three and five minutes)
 - a. Phrase, sentence, paragraph and straight copy drills related to medical terminology
 - (1) Speed
 - (2) Accuracy



VI. COURSE CONTENT, Continued

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- b. Letters with medical terminology
 - (1) Production
 - (2) Mailability
- 2. Dictation
 - a. Building medical shorthand vocabulary
 - (1) Accurate outlines or keyboarding
 - (2) Preview of correct outlines
 - b. Speed development
 - (1) Intensive dictation drills of familiar material (30 seconds; one-, three-, and five-minutes)
 - (2) Intensive dictation drills of unfamiliar, unpreviewed material (30 seconds; one-, three-, and five-minutes)
- 3. Medical Terminology
 - a. Spelling
 - (1) Shorthand
 - (2) Longhand
 - (3) Use of references
 - b. Pronunciation
 - (1) Phonetics
 - (2) Use of references
 - c. Definitions
 - (1) Prefixes
 - (2) Suffixes
 - (3) Use of references
 - d. Abbreviations
 - e. Medical specialties
 - f. Common terms
 - (1) Diseases
 - (2) Syndromes
 - (3) Signs and tests
- C. Production of Medical Business Forms and Letters
 - 1. Purchase orders
 - 2. Invoices
 - 3. Letters of request
 - 4. Collection letters
 - 5. Monthly statements
 - 6. Authorizations
 - 7. Office appointments
 - 8. Banking forms
 - 9. Phone messages
 - 10. Doctor's personal letters
- D. Production of Medical Forms and Reports
 - 1. Medical reports
 - 2. Insurance claims
 - 3. Major medical
 - 4. Medicare
 - 5. Medicade
 - 6. Consultation reports
 - 7. Physical examinations
 - 8. Doctor's order sheet



VI. COURSE CONTENT, Continued

- 9. Progress record
- 10. Hospital appointments
- 11. Transcript of patient interviews

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E. Inities Performed by a Medical Secretary

- 1. Handles the telephone
- 2. Makes appointments
- Receives patients
- 4. Quotes fees to patients
- 5. Tecords patients' charges and payments
- 6. Sends out bills
- 7. Collects bills
- o. Takes dictation and transcribes correspondence and dedical histories
- 9. Completes insurance forms
- 10. Makes hospital reservations for patients
- li. Procures nurses
- 12. Files histories and letters
- 13. Makes deposits
- . 14. Reconciles bank statements
 - 15. Reeps payroll records
 - 16. Reeps the doctor's financial records
 - 17. Handles petty cash
 - 18. Uses business machines
 - 19. Helps patients understand the doctor's instruction; regarding diet, prenatal care, exercises, and other activities
 - 20. Keeps track of dates for renewal of licenses, premiums due, membership fees, subscriptions, meetings, and other periodic activities
 - 21. Checks medical journals for items of interest to the doctor
 - 22. Proofreads the doctor's letters and manuscripts
 - 23. Prepares records for the doctor's use in court
 - 24. Orders, handles, and stores supplies
 - 25. Plans trips for the doctor
 - 76. Takes care of office in the doctor's absence

F. Fthics of the Medical Secretary

- 1. Privileged communications
- 2. Authorizations
- 3. Malpractice

VII. SUGGESTED PROCEDURES, STRATEGIES, AND LEARNING ACTIVITIES

A. Course Strategy and Method

The methodology to be utilized should be directed toward developing strong fundamentals in medical terminology, medical dictation, and medical transcription (the required skills) which are necessary for job competency.



VII. SUGGESTED PROCEDURES, STRATEGIES, AND LEARNING ACTIVITIES, Continued

Dictation tapes and records are helpful in teaching medical shorthand and are especially useful in the transcription of medical forms and letters. Multiple-listening stations may be set up so that each student may take dictation at his own speed.

Transcription is the ultimate goal of shorthand. Transcription skill does not grow by itself, ufficient time must be alotted for practice. This skill is developed and refined consistently through the entire course.

An adequate amount of medical terminology should be introduced during class and students should be encouraged to read and study medical materials outside of class time.

Films, videotapes, or a medical secretary guest speaker could clarify duties and ethical responsibilities of a medical secretary.

Supplementary activities such as the following can make learning more meaningful and realistic to the students:
(1) send out job opportunity survey forms or have students send them out to local medical offices to determine possible jobs for placement after graduation; (2) plan a work-a-week or work-a-day program in which students work in local medical offices during regular office hours.

B. Skill Building

Dictation is the basis of skill building in medical shorthand. New medical terminology should be presented, defined and dictated every week. Repetitive dictation practice builds speed and accuracy.

Skill building dictation is given at rates that are below and above the student's ability. It may be oral or recorded. Shorthand skill does not grow unless students are pushed to write above their present rates.

When transcribing, students should be encouraged to use the dictionary and medical reference books. Students could be pushed to increase their speeds by permitting only three passing takes at each speed.

When dictating for mailable transcripts, the dictation should be within the speed range of most of the students. Frustrations are reduced if several speeds of dictation recorded on tapes are available for assignment of appropriate speeds to each student.

C. Production of Medical and Business Letters

The student should become familiar with the various types of letters that the medical secretary composes. Attention should



VII. SUGGESTED PROCEDURES, STRATEGIES, AND LEARNING ACTIVITIES, Continued

the given to those letters that are routine (some of which are form letters) and those that must be sent in the doctor's obsence. Fractice in composing using shorthand will improve clarity and accuracy in writing characters if papers are exchanges for transcription.

implicate should be placed on the typing of sailable letters and the appearance of the overall product. Fined writings on the production of letters should be given after the student as appearance with the medical vocabulary included in each letter.

D. Poport Writing

A secretary who can use library facilities and do library research is a tremendous asset to a physician. Shorthand skills increase the efficiency of such research. Basic rules for manuscript typing should be reviewed and the ways of using the library's resources should also be included. The students should be offered material to type that will reinforce these rules. The teacher should determine the individual needs of students in this area.

E. Medical Forms

incorner forms, patients' medical records, att. Students should understand and be responsible for proofres into been so an undetected error could result in serious consequences to the patient, useter, or a third party. If notes are taken in specthand, the couracters must be clear and accurate.

F. Ethics

It is important for the student to learn about the guidelines and rules to which the medical profession is bound. The medical secretary has a moral responsibility to her employer. Realization of the importance of the confidential nature of this work is a must for the student.

G. Acceptability Standards

The student should be informed of the standards or goals that he should strive to achieve. The student should be able to relate each assignment to the actual office work of the medical secretary.

VIII. EVALUATIVE INSTRUMENTS

A. Tests

Suggested items for testing can be found in the Appendix.



VIII. EVALUATIVE INSTRUMENTS, Continued

Pretests and posttests should include all of the following types of test items. During the course, tests may be limited to one or more of the types listed depending upon the skill(s) or knowledge(s) to be evaluated.

TYPE

PURPOSE

Fundamental Skills

Test

To determine if the student has the basic skills in typing, shorthand, and language arts necessary for production of reports, forms

and letters.

Medical Terminology

Test

To determine whether the student can recognize and define commonly-used medical words.

Medical Suffixes and

Prefixes Test

To determine whether the student can understand the usage and meaning of suffixes and prefixes in common medical terms.

Medical Letters Test

To determine if the student can take medical dictation and transcribe mailable letters.

Medical Forms Test

To determine whether the student can select and type dictated information on medical forms in the correct manner with 100 percent accuracy.

Production Timings

To determine the speed and degree of accuracy developed by the student in completing lengthy assignments.

B. Grading

Most of the work need not be graded. The work that is graded, however, should be thoroughly taught before results are evaluated. The system of grading used should be flexible in that the weight given to any activity should be in terms of the proportion of the course devoted to that activity.

At the end of the course, most of the grade is based on achievement; however, consideration should be given to improvement of skills. The vocational nature of this course makes achievement of a marketable skill the final standard.



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- Eyers, Fdward E. 10,000 Medical Words. New York: Gregor Division of McGraw-Hill Book Co., 1972.
- Davis, P. E. and Hershelman, N. <u>Medical Dictation and</u>

 <u>Transcription</u>. Somerset, New Jersey: John Wiley & Sons,
 Inc., 1968.
- Masters, N. C. and Shapiro, H. A. Medical Secretary and the Doctor-Patient Relationship. New York: International Publications Service, 1966.
- Becretary: Terminology and Transcription, 3rd ed.

 Bew York: Gregg Division of McGraw-Hill Book Co., 1967.

B. Polerence Manuals

- /spley, John Cameron. Office Administration handbook. Chicago: The Dartnell Corporation, 1967.
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- Bolander, Donald O. and Bisdorf, Rita. <u>Instant Spelling Medical</u> <u>Dictionary</u>. Fundelein, Illinois: Career Institute, 1970.
- Philadelphia: W. B. Saunders Co., 1969.
- Appleton Publishing Co., 1966.
- Fishbein, Forris, M. D. The Popular Medical incyclopedia. New York: Doubleday and Co., inc., 1946.
- Trobse, Franz et. al. Atlas of Human Anatomy, 6th enl. ed. New York: Barnes and Noble, Inc., 1961.
- Gavin, Ruth E. and Sabin, William A. Reference Eanual for Stenographers and Typists, 4th ed. New York: Gregg Division of McGraw-Hill Book Co., 1970.



IX. RESOURCES FOR STUDENTS, Continued

- Hoerr, N. L. and Osol, A., editors. Blakiston's Illustrated Pocket Medical Dictionary. New York: Gregg Division of McGraw-Hill Book Co., 1960.
- Hoerr, N. L. and Osol, A., editors. <u>Blakiston's New Gould</u>
 <u>Medical Dictionary</u>, 2nd ed. New York: <u>Gregg Division</u>
 of McGraw-Hill Book Co., 1956.
- Janis, Jack Harold and Thompson, Margaret H. New Standard Reference for Secretaries and Administrative Assistants. New York: Macmillan Publishing Co., 1972.
- JeHarned, R. N. Medical Terminology Made Easy, 2nd ed. Berwyn, Illinois: Physicians' Record Co., 1966.
- Johnson, Carrie E. Medical Spelling Guide: A Peference Aid. Springfield, Illinois: Charles C. Thomas, 1966.
- Roget, P. M. Roget's International Thesaurus, 3rd ed. New York: T. Y. Crowell Co., 1962.
- Rothenberg, Robert E. The New American Medical Dictionary and Health Manual. New York: W. W. Norton & Co., 1966.
- Silverthorn, J. E. and Perry, Devern J. Word Division Manual. Cincinnati: South-Western Publishing Co., 1970.
- Sloane, Sheila B. Medical Word Book: A Spelling and Vocabulary

 Guide to Medical Transcription. Philadelphia: W. B.

 Saunders Co., 1973.
- Stedman, Thomas L. <u>Stedman's Medical Dictionary</u>, 22nd ed. Baltimore: The Williams & Wilkins Co., 1972.
- Torres, Francisco Ruiz. <u>Medi-Cina (English-Spanish and Spanish-English Medical Dictionary)</u>. Madrid: Editorial Alhambra Publications.
- Twer, David F. <u>Dictionary of Business and Scientific Terms</u>, 2nd ed. Houston: Gulf Publishing Co., 1968.
- Willeford, George. Medical Word Finder. West Wack, N. Y.: Parker Putlishing Co., sub. of Prentice-Hall, Inc., 1967.
- C. Tapes, Cassettes and Records
 - Hadley, Anne. Medical Terminology in 30 Days (6 tapes, \$90). Mountain View, California: Western Tape.
 - Hadley, Anne. The Medical Secretary as a Word Technician (8 tapes, \$96). Mountain View, California: Western Tape.



IX. RECOURCES FOR CHUDERING, Continued

- Dictation Disc Company.
- Medical Secretary: An Introductory Course (C. tapes, i bookse), and Th. forms). Mountain View, California: Western Tope.
- Providence, R. I.: Programs for Adhievement in Renting, inc.
- Proof, rathleen Berger and Byers, Edward M. Medical Lictation and Transcription Tapes, correlated with The Medical Secretary, Terminology and Transcription, 3rd ed. (\$220).

 New York: Gregg Division of McGraw-Fill Book Co.
- Waswo, Lyalda. Enrichment Tapes for Medical Dictation and Transcription (\$140). New York: Gregg Division of McGraw-Hill Book Co.
- Woolley, LeGrande H. Medical-Dental Terrinology (11 tapes, \$145.35). Mountain View, California: Western Tape.

X. RECOUNCED FOR TEACHERD

A. Books

Teacher manuals and/or keys are available for most of the books listed in the previous section, Resources for Students, from the respective publishing companies.

- Dennis, Robert L. and Doyle, Jean M. The Complete Handbook for Medical Secretaries and Assistants. Boston: Little, Brown, & Co., 1971.
- Kabbe, Elaine F. Medical Secretary's Guide. West Nyack, N. T.: Parker Publishing Company, Inc., 1970.
- Roberts, F. Medical Terms: Their Origin and Construction, 5th ed. Springfield, Illinois: Charles C. Thomas, Publisher, 1972.
- Strand, Helen R. An Illustrated Guide to Medical Terminology.

 Baltimore: The Williams and Wilkins Co., 1969.
- B. Teaching-Learning Aids (From South-Western Publishing Company and Gregg Division of McGraw-Hill Book Company)
 - 1. Certificates of credit and proficiency
 - 2. Award pins and charms
 - 3. Progress charts
 - 4. Roll of honor
 - 5. Instructional wall charts



X. REGOURCES FOR TEACHERS

C. Periodicals

- Balance Sheet, The. Cincinnati: South-Western Publishing Company.
- Business Education Forum. Washington, D. C.: National Business Education Association. (monthly publication)
- Business Education World. New York: Gregg Division of McGraw-Hill Book Company.
- Manpower. Washington, D. C.: U. S. Department of Labor,
 Manpower Administration. (monthly publication)
- Medical Digest. Northfield, Illinois. (published monthly)
- Medical Times. Port Washington, New York. (published monthly)
- The Doctor's Assistant. Elkhart, Indiana: Ames Company, Division of Miles Laboratories, Inc.
- Today's Health. 535 N. Dearborn Street, Chicago, Illinois.
- Today's Secretary. New York: Gregg Division of McGraw-Hill Book Company.



Apperdix:

SAMPLE STUDY SHEETS

A. Business and Medical Letters

Listed below are sample letters a medical secretary might write (for the secretary's signature):

1. Dear Mr. Barrett:

There will be a room available at Jackson Memorial Hospital on Monday, June 30. I have reserved this room for you. Will you please make arrangements to go to the hospital on that day.

Dr. Taylor will stop in to see you on Monday evening.

Sincerely yours,

Secretary to Dr. Taylor

2. The Mutual Insurance Company

Gentlemen:

RE: Eugene Sanders

Two months ago Dr. Taylor sent you his bill for services rendered to the above-named patient.

Inasmuch as the 48-hour report and several progress reports were sent to you, Dr. Taylor is wondering why he has not received your check.

Will you kindly look into this matter.

Very truly yours,

Secretary to Dr. Taylor

The following letters would need the doctor's signature:

3. Dear Dr. Salvati:

Mrs. Jane Rinehart came to me today for consultation and told me that she had been under your care for quite some time.

I should appreciate it greatly if you would let me have the medical history of Mrs. Rinehart. I am enclosing a written consent from her.

Sincerely yours,

SAMPLE STUDY SHEETS, Continued

4. Dear Dr. Jackson:

I am recommending to you Mr. Elmer Walter for treatment using physical therapy. Mr. Walter is suffering from a low back pair on the right side.

I should appreciate it if you will report to me any progress or non-reaction.

Sincerely yours,

B. Medical Forms

Whenever another opinion for further diagnosis is desired, the physician in charge of the case will request the services of another doctor. Such a request is called a consultation request, and a consultation report is completed.

CONSULTATION REPORT

service or physician REQUEST CONSULTATION REGARDING	
region. This pain pe	ce pain in the left inquinal ersists when patient walks
Swelling in the groin hernia.	out subsides when he reclines. i is detected. Diagnosed as M.D.
Swelling in the groin	Not subsides when he reclines. I is detected. Diagnosed as M.D. Attending Physician
Swelling in the groin	M.D. Attending Physician
Svelling in the groin hernia.	n is detected. Diagnosed asM.D.

M.D.





C. Medical Terminology

1. Abbreviations. Abbreviations are a part of the everyday language of a doctor's office. Although first designed for use on written prescriptions, the use of abbreviations has developed into almost a second language in medicine. The following are commonly-used abbreviations in medicine:

āā	equal parts of each
a. c.	before meals
ad lib.	at will
alt. dieb.	alternate days
alt. hor.	alternate hours
A.Z.	Aschheim-Zondek test for pregnancy
A.P.	antero-posterior or front to back
ASHD	Arteriosclerotic heart disease
b.i.d.	twice a day
B.E.	Barium enema
B.M.R.	basal metabolism rate
B.P.	blood pressure
В .S.	blood sugar
BUN	blood urea nitrogen
Ĉ	with
С.	centigrade
Ca.	carcinoma
C.B.C.	complete blood count
caps.	capsules
cc.	cubic centimeter
cm.	centimeter
coq.	boil
CVA	cerebrovascular accident
d.	daily
d.a.	let it be given to
Dx.	uiagnosis
dil.	dilute
div.	divide
dr.	dram (drachm), drams (drachms)
d.t.d.	give of such a dose
EKG or ECG	electrocardiogram
EEG	electroencephalogram
E.E.N.T.	eye, ear, nose and throat
extr.	extract
F.	Fahrenheit
FUO	fever of undetermined origin
Fx.	fracture
fl.	fluid
fl. oz.	fluid ounce
ft.	let there be made
G.B.	gall bladder
G.I.	gastrointestinal

SAMPLE STUDY SHEETS, Continued

BEST COPY AVAILABLE

	-40/ COx.
Gm.	gram, ;;rams
${ m g}{f r}$.	grain, grains
gt.	drop
gtt.	drops
h.	ı.our
Нъ.	hemoglobin
Het.	hematocrit
h.s.	hour of sleep (bedtime)
<u>:</u>	one
-	intelligence quotient
I.4.	intramuscular
1.M.	injection
inj.	intrávenous
I.V.	nilliequivalents
m.Eq.	milligram
mg.	millimeter
mm. N.A.D.	no appreciable disease
	negative
neg. noct.	to, night
N.Y.D.	not yet diagnosed
0.B.	obstetrics
o.h.	every hour
0.m.	every morning
o.n.	every night
0.P.D.	out-patient department
OV.	ovum
O2 ,	ounce
P.A.	POSTERIOR-ANTERIOR or back to front
p.a.	in equal parts
p.c.	after food; after meals
p.r.n.	as needed
PID	pelvic inflammatory disease
q	every
q.h.	every hour
q.2h	every second hour
q.3h	every third hour
q.i.d.	four times a day
Rx	prescription
R.B.C.	red blood count
S. or Sig.	give the following directions
58	one-half
stat.	immediately
TB	tuberculosis
t.i.d.	three times a day white blood count
W.B.C.	
U.R.I.	upper respiratory infection



SAMPLE STUDY SHEETS, Continued

2. Prefixes. Prefixes (word beginnings) and suffixes (word endings) are present in the medical vocabulary. True prefixes and suffixes must be combined with a word and cannot stand alone. There are also some prefixes and suffixes that are on the border line—that is, the term represents a word in its Greek, Latin or other origin; but it lost its independent existence when it was adopted into our present (English) medical terminology. A list of the most frequently encountered prefixes is given below:

a-	without, not	hyper-	over, increase
ab-	from, away	h y po-	under, decreased
ad-	to, toward	infra-	below
ambi-	both	inter-	between
ana-	up, back, again	intra-	within, into
ante-	before	intro-	into
auto-	self	juxta-	near, nearby
bi-, bis-	twice, double	macro-	large
bio-	pertaining to	micro-	many, muci.
•	life	myo-	muscle
cata-	down, lower,	neur-,	
•	under	neuro-	pertaining to the nerve
circum-	around, about	olig-,	
co-, com-	together	oligo-	few, less than normal
con-, ontra-	with	ortho-	normal
d e-	down, from	pan-	all, every
di-	double, twice	para-	apart from
dia-	through, apart	patho-	disease
dis-	apart, away	per-	through
	from	peri-	around
dys-	difficult,	poly-	many
·	painful	p ost-	after
e-	out of, from	pre-	before
ec-	out of	р у 0-	plus
ecto-	outside	re-	back, again
en-	in, into	retro-	backward
endo-	within	semi-	half
entero-	intestine	steno-	contracted
epi-	upon	sub-	less, under
ex-, exo-	outside, out of	super-	excessive
gastr-,		supra-	above, upon
gastro-	stomach	sym-, syn	together
hemi-	half	trans-	across
hemo-, haemo-,		ultra-	beyond, excess
hem-, hema-	blood	I	



SAMPLE STUDY SHEETS, Continued

3. Suffixes. A list of the most frequently encountered suffixes is given below:

-acsthesio, - esthesia	sensation
-algia	pain
-dynia	pain
-ectomy	surgical removal of
-genetic, -genic	producing, origin
-penous	kind
-gram	tracing, picture
-graph	instrument for recording
-itis	inflammation
-oid	like, resembling
-ology	study of, science of
-oma	tumor
-oscopy	diagnostic examination
-osis	condition, state
-ostomy	ope ning
-otomy	incision
-pathia, -pathy	disease of, feeling
-plegia	paralysis
-rrhagia	sudden flow
-rrhea	flow
-tropy	nutrition
-uria	urine

D. Phonetics

In taking dictation, the medical secretary writes terms phonetically without always knowing how to spell them. Thus, she may be unable to find these words in the dictionary. The rules on phonetics below will serve as a guide in looking up words in the dictionary when only the phonetic sound is known.

Phonetic Sound	Spelling	Example
er-e,	ery	ery thema
je jú	jeju	jejunal
kar	kar	karyochrome
lu	·· leu	leukemia
nu	pneu	pneumonia
rú	rheu	rheumatism
re -ah	rrhea	otorrhea
sil'	ci	cilia
ses	scess	abscess
s é o	scio	fasciola
shé-ah	scia	fascia
shik	schick	Schick (foreign
		name)
s ist	сy	cyst
si'	сy	cyanide
tha	phtha	phthalate
si′	psy	psyche
thi'	phthi	phthisis
to'	pto 18	ptosis

SAMPLE STUDY SHEETS, Continued



E. Medical Specialties

decause there are so many branches of medical practice, the duties of the medical secretary will be determined by the specialty of the doctor for whom she works. Familiarity with the terms peculiar to his specialty, instruments used, and problems likely to be encountered will greatly facilitate the performance of her duties. The most commonly practiced specialties are given below:

Anesthesiologist = an M.D. specializing in anesthesia
Cardiologist = an M.D. specializing in heart disease
Dermatologist = an M.D. specializing in skin disease
Endocrinologist = an M.D. specializing in gland diseases
Gastroenterologist = an M.D. specializing in diseases of the stomach
and intestines

General Practitioner = an M.D. not a specialist in any particular area Gynecologist = an M.D. specializing in disease of female reproductive organs

Internist = an M.D. specializing in diagnosis

Neurologist = an M.D. specializing in disease of the nerves and brain

Obstetrician = an M.D. specializing in delivering babies

Oncologist = an M.D. specializing in tumors

Ophthalmologist = an M.D. specializing in treatment of the eye

Orthopedist = an M.D. specializing in diseases of the bones and joints

Otolaryngologist = an M.D. specializing in ear, nose and throat diseases

Pathologist = an M.D. specializing in the study of diseased tissue

Pediatrician = an M.D. specializing in treatment of children

Proctologist = an M.D. specializing in diseases of the rectum and colon

Psychiatrist = an M.D. specializing in diseases of the mind

Radiologist = an M.D. specializing in surgery

Urologist = an M.D. specializing in surgery

Urologist = an M.D. specializing in diseases of the kidney

SAMPLE TEST ITEMS

A. Medical Letters Test

1. Directions: The doctor has asked you to write a letter to X-rays, Inc., to see if you can get some information about prices. He has heard that a considerable saving can be effected by buying film from this company. Use block style with closed punctuation.

X-rays, Inc., 2814 Territory Street, Rushing, Virginia. Gentlemen I am interested in obtaining information relative to prices and service available on your x-ray film.



SAMPLE TEST ITEMS, Continued

I have very little avai all storage space and have never felt it wise to purchase film out of the city. However, recently it has been brought to my attention by several associates that a considerable saving might be effected in obtaining film from your company.

At the present time, I use approximately one hundred 14×17 films, fifty 10 x 12 films and twenty 8×19 films per month.

I would like very much to hear from you regarding your prices as well as the availability of service and shipping time involved. Do you have a local service for emergency needs?

I shall look forward to your reply in the hope that we might mutually profit in future business.

John F. Smith, M.D. (your initials)

2. Directions: The doctor has shown you an article in the <u>Journal</u> of the American Medical Association and asked you to write a letter to the publishing company to get a reprint. Use modified block style with open punctuation.

Harry J. Sloan, M. D., 2233 - 16th Avenue, Wahoo, Louisiana. Dear Doctor Sloan I have read with interest your article, "Radiation Effects on Sea Turtles," in the October issue of the <u>Journal of the American Medical Association</u>.

It would be greatly appreciated if you could provide me with a reprint of this very interesting and informative article.

Thank you very much for your kindness. Sincerely yours John F. Smith, M.D. (your initials)

B. Medical Forms Test

- 1. Directions: You will receive a set of forms from your instructor that you will use in completing the following problems.
 - a. The instructor will dictate the following medical history.

 After the student takes notes in shorthand, he will transcribe the material on the proper medical form.

NAME: Minnie Carlsen (Mrs. Joseph A.)

REFERRED BY: Dr. Edwin Marston

ADDRESS: 1450 J. Street, Charleston, Virginia

OCCUPATION: Housewife

AGE: 36

MARRIED: 14 years (3 children, 13, 10, 4)

CHIEF COMPLAINT: Upper abdominal pain, heartburn



SAMPLE TEST ITEMS, Continued

otherwise healthy childhood. At 10, while pretaring for college, had a good deal of heartburn. Took medicine and the heartburn disappeared. At 10 her appendix was removed because of much abdominal pain. While at cellege, we would occasionally have severe heartburn, for which she took bicarbonate of soda, with relief; but it iid not bother her enough for her to consult a doctor.

Married at 22, first child born a year later. Had a great deal of heartburn during pregnancy. At 24 patient had the first severe attack of upper abdominal pain. At that time she was nervous and very anxious about the baby. She consulted a physician who examined her and told her she had "ulcer of the stomach." The symptom yielded quickly to diet and medicine.

Dimilar symptoms have recurred at intervals, sometimes as four as two years, and again yielded to treatment. She never had any nausea or vomiting.

three weeks ago, patient had another sever attack of upper addominal pain of the same type as formerly, but one did not get relief from her usual medication.

or three cups daily. Smoking, up to one package a day. Meals regular, appetite fair.

As far as patient knows has always worried a great deal about her children. Had "stomach trouble" even before her marriage at 20 and often since. An older sister had similar trouble and is also very nervous. Another sister and two brothers have been well.

PHYSICAL EXAMINATION: Tenderness in the epigastric region

LABORATORY EXAMINATION:

Free hydrochloric acid, 80 degrees
Blood positive in gastric contents
Gastric juice: 50 cc. obtained, no food particles
Hemaglobin: 11 gms.
Differential count: normal
Occult blood in stool
Indicanuria
Red blood cells 3,500,000

E-RAYS: Show an irregular erosion of the gastric mucosa yem. from the pylorus on the greater curvature.



SAMPLE TEST ITEMS, Continued

DTAGNOSIS: Gastric ulcer

TREATMENT PRESCRIBED: Special bland diet, no alcohol. Antiacid medication. Patient to return in one week.

2. Directions: The following material can be dictated on tape for the student to transcribe on the correct form for an itemized bill.

FROM: Warren Taylor, M.D., 310 Sunset Boulevard, Centerville, New York. Current date.

TO: National Insurance Company, 90 William Street, New York, New York

RE: Mandiano, Thomas 345 East 112 Street, New York, New York

EMPLOYER: General Clothing Manufacturing Company, 35 Fifth Avenue, New York, New York

DATE OF ACCIDENT: March 22, 1972

FOR SERVICES RENDERED:

C. Prefix Test

Directions: Match each prefix with its meaning.

(a) Anti	j (1) Excessive
(b) Brady	k (2) Before in time or place
(c) Endo	i (3) Beneath or under
(d) Supra	e (4) Under, less
(e) Hypo	1 (5) Without or absence of
(f) Antero	a (6) Against
(g) Dys	<u>b</u> (7) Slow
(h) Poly	c (8) Within, internal
(i) Sub	d (9) Above, over
(j) Hyper	h (10) Many, much
(k) Ante	f (11) Before, in front of
(1) A - An	g (12) Painful or difficult





b. Abbreviations Test

Directions: Match each abbreviation with its meaning.

(a) Leal. e (1) Intestine (2) Liver (b) berm (c) Cephal a (3) White (d) Lymph b (4) Skin (5) Great, large (e) Hephr h (6) Bone (f) Hyster (g) Enter (7) Head C (8) Kidney (h) Ost (e) (i) Megal (9) Womb, uterus d (10) Drainage (j) Hepat

E. <u>Suffix Test</u>

Directions: Match each suffix with its meaning.

(a) Itis
(b) Ology
(c) Uria
(d) Ectomy
(e) Pathy

d (1) Excision, removal
e (2) Disease
(3) Inflammation of
(4) Study, science
(5) Urine

F. Word Meaning Test

Directions: Match each word with its definition.

(a) Bronchiectasis (b) Hematology (c) Cardiogram (d) Laryngectomy (e) Ophthalmology (f) Phlebitis (g) Tracheotomy (h) Hydrotherapy (i) Thoracoplasty (j) Pneumonitis	f (1) Inflammation of a vein d (2) Removal of larynx h (3) Water treatment i (4) Inflammation of the lung c (5) Tracing of heart action d (6) Dilation of windpipe i (7) Chest repair b (8) Study of blood e (9) Science of the eye g (10) Opening in windpipe
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